Claim Amendments

Please amend claim 1 as follows.

- 1. (currently amended) A stereoscopic microscope that enables a plurality of observers, including a first observer and a second observer to simultaneously observe substantially the same microscope image of an object, the stereoscopic microscope comprising:
 - a first observation device for use by the first observer;
 - a second observation device for use by the second observer;
- a stereoscopic microscope body that includes an objective optical system, a pair of zoom optical systems, a first reflective surface that deflects light paths from the objective optical system to a substantially horizontal direction, a second reflective surface that then deflects the light paths upward, and a third reflective surface that then deflects the light paths to a substantially horizontal direction, wherein the first through third reflective surfaces form a folded optical system and the pair of zoom optical systems is arranged within the folded optical system;
- a first connector that is positioned on the stereoscopic microscope body in the vicinity that the optical axis of the objective optical system intersects with the stereoscopic microscope body, said first connector for attaching the first observation device; and
- a second connector that is installed on the stereoscopic microscope body at a position that is the same level as, or above, the position that the first connector is installed on the stereoscopic microscopic body; and
- a pupil splitter unit for splitting a light flux into two light fluxes is provided near a location conjugate with the exit pupil of one of the pair of zoom optical systems; wherein

the first connector is located at a position on the stereoscopic microscope body, in relation to the optical axis of the objective optical system, that is closer to the objective optical system than is the position of the second connector, and the first and second connectors are arranged on opposite sides of the optical axis of the objective optical system as viewed in the direction of the horizontal optical path of the folded optical system.

1	2. (original) The stereoscopic microscope according to claim 1, wherein the second observation
2	device is attached to the stereoscopic microscope body at the second connector and has a rotation
3	axis around which the second observation device can be rotated, and
4	the angle between said rotation axis and the optical axis of the objective optical system, in
5	the region from the observed object to the microscope body, is 15 degrees or less.
1	3. (previously presented) The stereoscopic microscope according to claim 2, wherein:
2	the folded optical system further comprises a first leading optical system for dividing the
3	two light fluxes that transmit through the pair of zoom optical systems into four light fluxes, said
4	first leading optical system leading these four light fluxes toward the second connector;
5	the second observation device has an ocular optical system that includes two eyepiece
6	lenses;
7	of said four light fluxes, two light fluxes are led by the ocular optical system to said
8	eyepiece lenses; and
9	by rotating the second observation device around the rotation axis, the two light fluxes
10	that enter the ocular optical system may be switched to the other two of said four light fluxes.
1	4. (previously presented) A stereoscopic microscope that enables a plurality of observers,
2	including a first observer and a second observer to simultaneously observe substantially the same
3	microscope image of an object, the stereoscopic microscope comprising:
4	a first observation device for use by the first observer;
5	a second observation device for use by the second observer;
6	a stereoscopic microscope body that includes an objective optical system and a pair of
7	zoom optical systems;
8	a first connector that is positioned on the stereoscopic microscope body in the vicinity
9	that the optical axis of the objective optical system intersects with the stereoscopic microscope
10	body, said first connector for attaching the first observation device; and
11	a second connector that is installed on the stereoscopic microscope body at a position that

12	is the same level as, or above, the position that the first connector is installed on the stereoscopic
13	microscopic body;
14	wherein
15	the first connector is located at a position on the stereoscopic microscope body, in relation
16	to the optical axis of the objective optical system, that is closer to the objective optical system
17	than is the position of the second connector;
18	the second observation device is attached to the stereoscopic microscope body at the
19	second connector and has a rotation axis around which the second observation device can be
20	rotated;
21	the angle between said rotation axis and the optical axis of the objective optical system, in
22	the region from the observed object to the microscope body, is 15 degrees or less;
23	the stereoscopic microscope body further comprising a first leading optical system for
24	dividing the two light fluxes that transmit through the pair of zoom optical systems into four light
25	fluxes, said first leading optical system leading these four light fluxes toward the second
26	connector;
27	the second observation device has an ocular optical system that includes two eyepiece
28	lenses;
29	of said four light fluxes, two light fluxes are led by the ocular optical system to said
30	eyepiece lenses;
31	by rotating the second observation device around the rotation axis, the two light fluxes
32	that enter the ocular optical system may be switched to the other two of said four light fluxes; and
33	a pupil splitter unit for splitting a light flux into two light fluxes is provided near a
34	location conjugate with the exit pupil of one of the pair of zoom optical systems.
1	5. (original) The stereoscopic microscope according to claim 1, wherein:
2	the first connector has a contact surface that contacts the first observation device for
3	attaching the first observation device to the microscope body, said contact surface having its
4	surface normal inclined toward the first observer; and

5	the second connector is positioned on the microscope body surface in a horizontal
6	position from the first connector in a direction away from the first observer.
1	6. (previously presented) The stereoscopic microscope according to claim 2, wherein:
2	the folded optical system further comprises a second leading optical system that includes
3	a plurality of reflecting surfaces and which makes four light fluxes from the light flux that
4	transmits through the objective optical system, the second leading optical system leading these
5	four light fluxes toward the second connector;
6	the second observation device has an ocular optical system that includes two eyepiece
7	lenses;
8	of the four light fluxes, two light fluxes are led by the ocular optical system to the
9	eyepiece lenses; and
10	by rotating the second observation device around the rotation axis, the two light fluxes
11	that enter the ocular optical system may be switched to the other two of the four light fluxes;
12	wherein
13	each of the four light fluxes is reflected an even number of times by the plurality of
14	reflecting surfaces.
1	7. (previously presented) The stereoscopic microscope according to claim 2, wherein:
2	the folded optical system further comprises a first leading optical system for dividing the
3	two light fluxes that transmit through the pair of zoom optical systems into four light fluxes, the
4	first leading optical system leading these four light fluxes toward the second connector;
5	the second observation device includes a rotatable part having a rotation axis, the angle
6	between the rotation axis and the optical axis of the objective optical system in a region between
7	the observed object and the microscope body is in a range of 35 degrees up to and including 55
8	degrees;
9	the second observation device further comprises an ocular optical system that includes
10	two eyepiece lenses and a third leading optical system which leads the four light fluxes just

before the rotatable part; and
the second observation device is so constructed that two of the four light fluxes enter
within the rotatable part and the light fluxes that enter within the rotatable part are selected by
rotation of the rotatable part around the rotation axis.
8. (original) A stereoscopic microscope according to claim 7, wherein:
the third leading optical system includes a plurality of reflecting surfaces, and each of the
four light fluxes is reflected an even number of times by the plurality of reflecting surfaces.
9. (original) The stereoscopic microscope according to claim 3, wherein:
the ocular optical system includes a pair of relay optical systems, a single image rotator, a
pair of image formation optical systems, and a pair of eyepiece optical systems which include
said eyepiece lenses;
the second observation device includes an intermediate tube which houses the pair of
relay optical systems and the single image rotator, and an ocular tube that houses the pair of
image formation optical systems and the pair of eyepiece optical systems;
the intermediate tube is connected to the second connector at one end and is rotatably
connected to the ocular tube at the other end;
two light fluxes that pass through the pair of relay optical systems housed by the
intermediate tube transmit through the image rotator; and
the image rotator is made to rotate by one-half the amount of rotation of the ocular tube.
10. (previously presented) A stereoscopic microscope that enables a plurality of observers,
including a first observer and a second observer to simultaneously observe substantially the same
microscope image of an object, the stereoscopic microscope comprising:
a first observation device for use by the first observer;
a second observation device for use by the second observer;
a stereoscopic microscope body that includes an objective optical system and a pair of

7	zoom optical systems;
8	a first connector that is positioned on the stereoscopic microscope body in the vicinity
9	that the optical axis of the objective optical system intersects with the stereoscopic microscope
10	body, said first connector for attaching the first observation device; and
11	a second connector that is installed on the stereoscopic microscope body at a position that
12	is the same level as, or above, the position that the first connector is installed on the stereoscopic
13	microscopic body;
14	wherein
15	the first connector is located at a position on the stereoscopic microscope body, in relation
16	to the optical axis of the objective optical system, that is closer to the objective optical system
17	than is the position of the second connector;
18	the second observation device is attached to the stereoscopic microscope body at the
19	second connector and has a rotation axis around which the second observation device can be
20	rotated;
21	the angle between said rotation axis and the optical axis of the objective optical system, in
22	the region from the observed object to the microscope body, is 15 degrees or less;
23	the stereoscopic microscope body further comprising a first leading optical system for
24	dividing the two light fluxes that transmit through the pair of zoom optical systems into four light
25	fluxes, said first leading optical system leading these four light fluxes toward the second
26	connector;
27	the second observation device has an ocular optical system that includes two eyepiece
28	lenses;
29	of said four light fluxes, two light fluxes are led by the ocular optical system to said
30	eyepiece lenses;
31	by rotating the second observation device around the rotation axis, the two light fluxes
32	that enter the ocular optical system may be switched to the other two of said four light fluxes;
33	the ocular optical system includes a pair of relay optical systems, a single image rotator, a
34	pair of image formation optical systems, and a pair of eyepiece optical systems including said

eyepiece lenses;

the second observation device includes an intermediate tube which houses the pair of relay optical systems having exit optical axes that are substantially parallel and the single image rotator, and an ocular tube which houses the pair of image formation optical systems and the pair of eyepiece optical systems, with the intermediate tube being connected to the second connector at one end;

the ocular tube is extendable from, and collapsible into, the intermediate tube over a range of movement in a direction of the exit optical axes of the pair of relay optical systems; and exit pupils of the pair of relay optical systems are arranged near a middle position of the range of extending and collapsing movement of the ocular tube.

11. (canceled)

12. (original) An observation device that is used by attaching it to the body of a stereoscopic microscope, said observation device comprising:

an intermediate tube that houses a pair of relay optical systems, each relay optical system having an exit axis that is substantially parallel to the exit axis of the other relay optical system, and an image rotator; and

an ocular tube that houses a pair of image formation optical systems and a pair of eyepiece optical systems;

wherein

the intermediate optical tube has a connecting portion that may be connected to the microscope body at one end;

the ocular tube is extendable from, and collapsible into, the intermediate tube over a range of movement in the direction of the exit optical axes of the pair of relay optical systems; and

exit pupils of the pair of relay optical systems are arranged near a middle position of said range of movement of the ocular tube.

- 13. (canceled)
- 14. (canceled)